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(54) **Electrode alloy powder and method of producing the same**

(57) A method of producing an electrode alloy powder is disclosed, wherein, to provide an electrode alloy powder capable of yielding an alkaline storage battery excellent in high-rate discharge property, self-discharge property and cycle life, a first step of immersing a starting powder comprising a hydrogen storage alloy con-

taining 20 to 70 wt% of Ni in an aqueous solution containing 30 to 80 wt% of sodium hydroxide at a temperature of 90°C or higher and a second step of washing with water the powder which has been subjected to the first step are conducted.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 695 530 A (HONG ET AL) 9 December 1997 (1997-12-09) * column 11, line 20 - line 50; claim 1 * -----	1	B22F1/00 H01M4/38 H01M4/38
A	US 5 605 585 A (YAMAMOTO ET AL) 25 February 1997 (1997-02-25) * claim 6 * -----	2	
A	EP 0 944 124 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 22 September 1999 (1999-09-22) * claims 2,4 * -----	1	
A	EP 0 793 284 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 3 September 1997 (1997-09-03) * page 3, line 47 - line 52 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B22F C22C H01M
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 May 2005	Examiner Schruers, H
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 31 0652

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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23-05-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5695530 A	09-12-1997	US 5541017 A	30-07-1996
		US 2001012586 A1	09-08-2001
		US 5552246 A	03-09-1996
		US 5733680 A	31-03-1998
		US 5766799 A	16-06-1998

US 5605585 A	25-02-1997	JP 3417980 B2	16-06-2003
		JP 7029571 A	31-01-1995
		JP 7048602 A	21-02-1995
		JP 2920343 B2	19-07-1999
		JP 7118711 A	09-05-1995

EP 0944124 A	22-09-1999	JP 2982805 B2	29-11-1999
		JP 11339793 A	10-12-1999
		CN 1234620 A ,C	10-11-1999
		DE 69916921 D1	09-06-2004
		DE 69916921 T2	07-04-2005
		EP 0944124 A1	22-09-1999
		US 2001054458 A1	27-12-2001

EP 0793284 A	03-09-1997	JP 3214341 B2	02-10-2001
		JP 9245783 A	19-09-1997
		DE 69700304 D1	12-08-1999
		DE 69700304 T2	28-10-1999
		EP 0793284 A1	03-09-1997
		US 5837317 A	17-11-1998
